



**WARM SPRINGS FOREST PRODUCTS INDUSTRIES**  
P.O. BOX 810 • WARMSPRINGS, OR 97781 • (503) 883-1131

August 16, 1990

Mr. Ron Culver  
U.S. Environmental Protection Agency  
Oregon Operations Office  
811 S.W. 6th Ave.  
Executive Building 3rd Floor  
Portland, OR 97204

Dear Mr. Culver:

Please find enclosed a copy of soil sample taken after removal of 10,000 gallon diesel underground storage tank. The storage tank and remaining contents were disposed by Petroleum Equipment Maintenance Co. of Portland Oregon. P.E.M.C.O. also removed soil sample and had analyzed.

As per your phone conversation with Rodger Holcomb on August 2, 1990 and the test results, which indicate contamination, Warm Springs Forest Products Industries is currently contacting consultants to develop and file a corrective action plan.

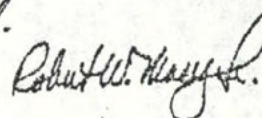
Thank you for help in this matter.

Sincerely,

  
Robert W. Macdonald Sr.  
General Manager

Enclosure  
RWM:dt

*Roger.*  
*Other than phone conversations, this*  
*is the only info. we have relative to*  
*our tank removal.*





# CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

| PROJ. NO.               | PROJECT NAME      |      | SAMPLER     |      | ANALYSIS TYPE REQUESTED |                  |            |            |                                    |      |          |           |                        |                        |       |              |       |        |            |        |            |       |          |              |          |            |      |
|-------------------------|-------------------|------|-------------|------|-------------------------|------------------|------------|------------|------------------------------------|------|----------|-----------|------------------------|------------------------|-------|--------------|-------|--------|------------|--------|------------|-------|----------|--------------|----------|------------|------|
| 2691                    | Warm Springs Mill |      | Scott Wachs |      |                         |                  |            |            |                                    |      |          |           |                        |                        |       |              |       |        |            |        |            |       |          |              |          |            |      |
| ADDRESS                 |                   |      |             |      |                         |                  |            |            |                                    |      |          |           |                        |                        |       |              |       |        |            |        |            |       |          |              |          |            |      |
| Hwy 26 Warm Springs, OR |                   |      |             |      |                         |                  |            |            |                                    |      |          |           |                        |                        |       |              |       |        |            |        |            |       |          |              |          |            |      |
| SAMPLE NUMBER           | DATE              | TIME | WATER       | SOIL | ICED                    | SOURCE OF SAMPLE | TANK SIZE: | DIRECTION: | DEPTH:                             | BTEX | 602/8020 | BTEX, VPH | 3810 Modified Gasoline | 8015 Modified TPH (IR) | 418.1 | OIL & GREASE | 413.1 | EP TOX | Cd, Cr, Pb | EP TOX | Metals (8) | PCB's | 608/8080 | Chlor. Solv. | 601/8010 | Flashpoint | 1010 |
|                         |                   |      |             |      |                         |                  |            |            |                                    |      |          |           |                        |                        |       |              |       |        |            |        |            |       |          |              |          |            |      |
| 1                       | 7/11/90           | 1330 | X           | X    |                         | Ballona Tank Pt  |            |            | 9 <sup>ft</sup> - 10 <sup>ft</sup> |      |          |           |                        |                        | X     |              |       |        |            |        |            |       |          |              |          |            |      |

|                  |         |       |                        |
|------------------|---------|-------|------------------------|
| Relinquished by: | Date    | Time  | Received by:           |
| Scott Wachs      | 7/11/90 | 1330  | Bill Krut              |
| Relinquished by: | Date    | Time  | Received by:           |
| Bill Krut        | 7/16/90 | 10:16 | Mike Spindler          |
| Relinquished by: | Date    | Time  | Received by laboratory |
| Mike Spindler    | 7/16/90 | 12:08 | K. Richard P           |

- RUSH YES NO

PETROLEUM EQUIPMENT MAINTENANCE CO.  
2310 N.E. Columbia Blvd.  
P.O. Box 11569  
Portland, OR 97211  
(503) 288-7577

90-1051





PETROLEUM EQUIPMENT MAINTENANCE CO.

P.O. BOX 11569 • 2310 NE COLUMBIA BLVD.  
PORTLAND, OREGON 97211-0588  
(503) 288-7541



CLIENT REPORT INFORMATION

COMPANY Warm Springs Mill JOB # 101  
JOB LOCATION Warm Springs, OR

TYPE OF SOIL CONDITIONS: Clay

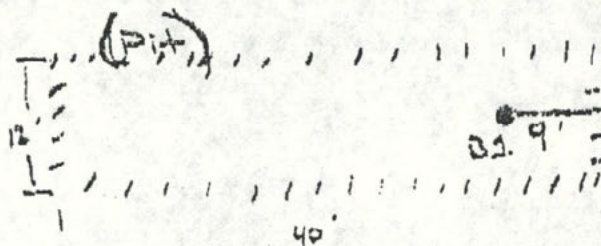
WATER TABLE ENCOUNTERED        YES X NO DEPTH       

VISUAL SIGNS OF CONTAMINATION OR ODOR? YES

FREE FLOWING PRODUCT ENCOUNTERED? IF SO AT WHAT LEVEL NO

GRAPHIC SHOWING TANK FARM AND SAMPLING LOCATION:

# POND



Beide

مجلس





PACIFIC  
Environmental  
Laboratory Inc.

0405 S.W. Nimbus Ave. Beaverton, OR 97005 (503) 844-0800  
FAX # (503) 844-2202

July 23, 1990

PEMCO  
P.O. Box 11569  
Portland, OR 97211

Attn: Brad Harris

Re: JOB #2691  
PEL #90-1956

Enclosed is the lab report for your sample which was received on July 16, 1990.

I. Sample Description

One Soil Sample

The sample was received under a chain of custody.

The sample was received in a container consistent with EPA protocol.

II. Quality Control

No project specific QC was requested. In-house QC data is available upon request.

III. Analytical Results

Test methods may include minor modifications of published methods such as detection limits or parameter lists. Solid and waste samples are reported on an "as received" basis unless otherwise noted.

Compounds not detected are listed under results as ND.

Sincerely,

Howard Holmes  
Lab Manager

Howard Boorse  
QA/QC Manager



Page 2 of 2



Pacific  
Environmental  
Laboratory, Inc.

PEL REPORT NUMBER: 90-1956  
 CLIENT: PEMCO  
 JOB REFERENCE: 2691  
 DATE: July 23, 1990  
 ITEM: One Soil Sample

METHOD: Total Petroleum Hydrocarbons per EPA 418.1  
 Results in mg/kg (ppm)

| Sample I.D.     | TPH   |
|-----------------|-------|
| 1               | 2,300 |
| Lab Blank       | ND    |
| Detection Limit | 5     |



September 14, 1990

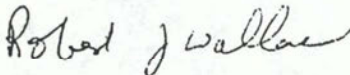
Roger Smith, Project Manager  
Roger Smith & Associates, Inc.  
1400 S.W. Davenport  
Portland, Oregon 97201

Dear Roger:

Enclosed are the results of the analyses of samples  
submitted on September 11, 1990 from Project 90-171.

We appreciate this opportunity to be of service to you on  
this project. If you have any questions regarding this  
material, or if you just want to discuss any aspect of your  
projects, please do not hesitate to contact me.

Sincerely,



Robert J. Wallace  
Senior Chemist

RJW:so

Enclosures



Date of Report: September 14, 1990  
Date Submitted: September 11, 1990  
Project: 90-171

RESULTS OF ANALYSES OF ENVIRONMENTAL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS  
BY IR (EPA METHOD 418.1)  
(Soxhlet Extraction)

| <u>Sample #</u> | <u>Matrix</u> | <u>Dilution<br/>Factor</u> | <u>Total Petroleum<br/>Hydrocarbons</u><br>(ppm) |
|-----------------|---------------|----------------------------|--|
| P-North         | Soil          | 3.72                       | 59   |
| P-Center        | Soil          | 3.50                       | 200  |
| P-South         | Soil          | 3.90 x10                   | 2,800  |

Quality Assurance

|                       |      |     |
|-----------------------|------|-----|
| Method Blank          |      | <10 |
| 9-44-2<br>(Original)  | Soil | <10 |
| 9-44-2<br>(Duplicate) | Soil | <10 |

*enviros*



Roger N. Smith  
GEOLOGICAL ENGINEER

ROGER N. SMITH ASSOCIATES, INC.  
Ground Water and Environmental Consultants

1400 S.W. Davenport St.  
Portland, OR. 97201-2229 (503) 241-5444

### Chain of Custody Record

PROJECT NAME: Warm Spring Ponds

PROJECT LOCATION: ~~~~~

SAMPLED BY: RNS DATE: 10 September 1990 SITE NUMBER: 90-171

| Sample Number | Date/Time Sampled | Type of Samples | # of Containers | Analyses Required | Comments |
|---------------|-------------------|-----------------|-----------------|-------------------|----------|
| P-North       | 7/9/90            | Soil            | 1               | TPH 418.1         |          |
| P-Center      | 7/9/90            | Soil            | 1               | TPH 418.1         |          |
| P-South       | 7/9/90            | Soil            | 1               | TPH 418.1         |          |
|               |                   |                 |                 |                   |          |
|               |                   |                 |                 |                   |          |
|               |                   |                 |                 |                   |          |
|               |                   |                 |                 |                   |          |
|               |                   |                 |                 |                   |          |
|               |                   |                 |                 |                   |          |

|  |   |  |   |
|--|---|--|---|
| Relinquished by: (Signature)<br>NAME: <u>John F. Piper</u><br>FIRM: <u>Roger N. Smith Associates, Inc.</u> | Date: <u>10/9/90</u><br>Time: <u>9:30</u> | Received by: (Signature)<br>NAME: _____<br>FIRM: _____                     | Date: _____<br>Time: _____                  |
| Relinquished by: (Signature)<br>NAME: _____<br>FIRM: _____   | Date: _____<br>Time: _____                | Received by: (Signature)<br>NAME: _____<br>FIRM: <u>Enviro Corporation</u> | Date: _____<br>Time: _____<br>Client: _____ |

Additional Comments: \_\_\_\_\_





PACIFIC  
Environmental  
Laboratory, Inc.

9405 S.W. Nimbus Ave. Beaverton, OR 97005 (503) 644-0660  
FAX # (503) 644-2202

September 28, 1990

Roger N. Smith Associates, Inc.  
1400 S.W. Davenport Street  
Portland, OR 97201

Attn: Roger Smith

Re: JOB #90-161  
PROJECT - Warm Springs  
PEL #90-2743

Enclosed is the lab report for your samples which were received on September 20, 1990.

I. Sample Description

Two Soil Samples  
One Water Sample

The samples were received under a chain of custody.

The samples were received in containers consistent with EPA protocol.

II. Quality Control

No project specific QC was requested. In-house QC data is available upon request.

III. Analytical Results

Test methods may include minor modifications of published methods such as detection limits or parameter lists. Solid and waste samples are reported on an "as received" basis unless otherwise noted.

Compounds not detected are listed under results as ND.

Sincerely,

Howard Holmes  
Lab Manager

Howard Boorse  
QA/QC Manager





PACIFIC  
environmental  
laboratory, inc.

PEL REPORT NUMBER: 90-2743  
 CLIENT: Roger N. Smith Associates, Inc.  
 JOB NUMBER: 90-161  
 PROJECT: Warm Springs  
 DATE: September 28, 1990  
 ITEMS: Two Soil Samples  
 One Water Sample

**METHOD:** Total Petroleum Hydrocarbons per EPA 418.1  
 Results in mg/kg (ppm)

| <u>Sample I.D.</u> | <u>TPH</u> |
|--------------------|------------|
| 5                  | ND         |
| 4                  | ND         |
| Lab Blank          | ND         |
| Detection Limit    | 5          |

**METHOD:** BTEX per EPA 602  
 Results in ug/L (ppb)

| <u>Sample I.D.</u> | <u>Benzene</u> | <u>Toluene</u> | <u>Ethyl Benzene</u> | <u>Xylene</u> | <u>Detection Limit</u> |
|--------------------|----------------|----------------|----------------------|---------------|------------------------|
| 1,2,3              | ND             | ND             | ND                   | ND            | 1                      |
| Lab. Blank         | ND             | ND             | ND                   | ND            | 1                      |



Roger N. Smith  
GEOLOGICAL ENGINEER

ROGER N. SMITH ASSOCIATES, INC.  
Ground Water and Environmental Consultants

1400 S.W. Davenport St.  
Portland, OR. 97201-2229 (503) 241-5444

### Chain of Custody Record

PROJECT NAME: Warm Springs Forest Products Tank

PROJECT LOCATION: \_\_\_\_\_

SAMPLED BY: RNS DATE: 20 September 1990

SITE NUMBER: 90-161

| Sample Number | Date/Time Sampled | Type of Samples | * of Containers | Analyses Required                              | Comments  |
|---------------|-------------------|-----------------|-----------------|--|---|
| 5             | 20 September 1990 | Soil            | 1-40ml          | TPH 418.1                                      | Profile 3'-6'   |
| 4             | 20 September 1990 | Soil            | 1-40ml          | TPH 418.1                                      | Water Table   |
| 1, 2, 3       | 20 September 1990 | Water           | 3-40ml (ea)     | BTEX (only one Analyses on any of the 3 Vials) | Trench (bottles numbered 1, 2, & 3)                         |
|               |                   |                 |                 |  |   |
|               |                   |                 |                 |  |   |
|               |                   |                 |                 |  |   |
|               |                   |                 |                 |  |   |
|               |                   |                 |                 |  |   |
|               |                   |                 |                 |  |   |
|               |                   |                 |                 |  | ALL SAMPLES WILL BE<br>DISPOSED OF 30 DAYS<br>AFTER RECEIPT |

|  |   |   |   |
|--|---|---|---|
| Relinquished by: (Signature)<br>NAME: <u>John F. Piper</u><br>FIRM: <u>Roger N. Smith Associates, Inc.</u> | Date: <u>20 September 1990</u><br>Time: <u>4:30</u> | Received by: (Signature)<br>NAME: <u>Kim Richards</u><br>FIRM: <u>PEL</u> | Date: <u>9/20/90</u><br>Time: <u>5:00</u>   |
| Relinquished by: (Signature)<br>NAME: _____<br>FIRM: _____   | Date: _____<br>Time: _____                          | Received by: (Signature)<br>NAME: _____<br>FIRM: _____                    | Date: _____<br>Time: _____<br>Client: _____ |

Additional Comments: PEL 90-2743



## **WATER WELL LOGS**

for wells near a former  
UST located at the:

**WARM SPRINGS FOREST PRODUCTS INDUSTRIES**

Warm Springs, Oregon

September, 1990



FEB - 2 1978

JAN 16 1978

State Well No. 2024-10

State Permit No. \_\_\_\_\_

WATER RESOURCES DEPT. Write above (this line) WATER RESOURCES DEPT

Q(10) LOCATION OF WELL:

County Jefferson Driller's well number 485  
 1/4 1/4 Section 29 T. 95 R. 13E W.M.

Bearing and distance from section or subdivision corner  
located Dischutes River (near mill)

(11) WATER LEVEL: Completed well.

Depth at which water was first found 20 ft.  
 Static level 7 ft. below land surface. Date 11/21/77  
 Artesian pressure \_\_\_\_\_ lbs. per square inch. Date \_\_\_\_\_

(12) WELL LOG: Diameter of well below casing 6" ft.  
Depth drilled 95 ft. Depth of completed well 80 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

[illegible]

Work started 11/22 1977 Completed 11/28 1977  
Date well drilling machine moved off of well 11/28 1977

**Drilling Machine Operator's Certification:**  
This well was constructed under my direct supervision.  
Materials used and information reported above are true to my  
best knowledge and belief.  
[Signed] Charles Fox Date 1/10, 1978  
(Drilling Machine Operator)  
Drilling Machine Operator's License No. 387

**Water Well Contractor's Certification:**

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name Archie Fox, Well Drilling  
(Person, firm or corporation) (Type or print)

Address Rt. 2 Box 202 Pineville Or 97132

[Signed] Archie Fox  
(Water Well Contractor)

Contractor's License No. 444 Date 1/10 10 28



STATE OF OREGON  
WATER WELL REPORT  
(as required by ORS 537.785)

RECEIVED  
SEP - 9 1986  
WATER RESOURCES DEPT  
SALEM, OREGON

895/13E-312

(1) OWNER:

Name (b) (6) Owner's Well Number: 13  
Address PO Box 664  
City Warm Springs State OR Zip

(2) TYPE OF WORK:

☒ New Well ☐ Deepen ☐ Recondition ☐ Abandon

(3) DRILL METHOD:

☒ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Other

(4) PROPOSED USE:

☐ Domestic ☐ Community ☐ Industrial ☐ Irrigation  
☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:

Depth of Completed Well 650 ft.  
Special Standards date of approval

| HOLE     |         | SEAL     |         | Amount          |    |
|----------|---------|----------|---------|-----------------|----|
| Diameter | From To | Material | From To | sacks or pounds |    |
| 10       | 0       | 25       | cement  | 0               | 25 |
|          |         |          |         | 10              |    |

How was seal placed? Method ☐ A ☐ B ☐ C ☐ D ☒ E

☐ Other

Backfill placed from ft. to ft. Material

Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER:

|         | Diameter | From | To | Gauge | Steel                               | Plastic                  | Welded                              | Threaded                 |
|---------|----------|------|----|-------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|
| Casing: | 6        | 1    | 25 | 250   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|         |          |      |    |       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
|         |          |      |    |       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
|         |          |      |    |       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
|         |          |      |    |       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| Liner:  |          |      |    |       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
|         |          |      |    |       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:

☐ Perforations

Method

☐ Screens

Type

Material

| From | To | Slot size | Number | Diameter | Tele/pipe size | Casing                   | Liner                    |
|------|----|-----------|--------|----------|----------------|--------------------------|--------------------------|
|      |    |           |        |          |                | <input type="checkbox"/> | <input type="checkbox"/> |
|      |    |           |        |          |                | <input type="checkbox"/> | <input type="checkbox"/> |
|      |    |           |        |          |                | <input type="checkbox"/> | <input type="checkbox"/> |
|      |    |           |        |          |                | <input type="checkbox"/> | <input type="checkbox"/> |
|      |    |           |        |          |                | <input type="checkbox"/> | <input type="checkbox"/> |
|      |    |           |        |          |                | <input type="checkbox"/> | <input type="checkbox"/> |

(8) WELL TESTS: Minimum testing time is 1 hour

☐ Pump

☐ Bailer

☒ Air

☐ Flowing  
☐ Artesian

Yield gal/min

Pumping level

Drill stem at

Time

5

200

600

1 hr

(Bailer test)

4

200

1 1/2 hr

Temperature of water 53 Depth Artesian Flow Found

Was a water analysis done? ☐ Yes By whom

Did any strata contain water not suitable for intended use? ☐ Too little

☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other

Depth of strata:

(9) LOCATION OF WELL by legal description:

County Jeff Latitude Longitude  
Township 19 N or S Range 13 E or W, WM.  
Section 31 SE 1/4 1/4  
Tax Lot Lot Block Subdivision  
Street Address of Well (or nearest address)

(10) STATIC WATER LEVEL:

200 ft. below land surface. Date 8/16/86  
Artesian pressure lb. per square inch. Date

(11) WELL LOG:

Ground elevation

| Material        | From | To  | WB? | SWL |
|-----------------|------|-----|-----|-----|
| top soil        | 0    | 4   |     |     |
| boulders & clay | 4    | 13  |     |     |
| clay (brown)    | 13   | 73  |     |     |
| clay (white)    | 73   | 135 |     |     |
| sandstone       | 135  | 223 |     |     |
| clay (green)    | 223  | 389 | WB  |     |
| sandstone       | 389  | 401 |     |     |
| clay - stone    | 401  | 439 |     |     |
| clay (green)    | 439  | 492 | WB  |     |
| clay (brown)    | 492  | 560 |     |     |
| sandstone       | 560  | 597 |     |     |
| clay & sed.     | 597  | 621 |     |     |
| clay (green)    | 621  | 632 | WB  |     |
| basalt (broken) | 632  | 655 |     |     |

Date started 5/13/86 Completed 8/16/86

(unbonded) Water Well Constructor Certification:

I constructed this well in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

Signed *Mike R. Brockett* Date 9/7/86

(bonded) Water Well Constructor Certification:

I accept responsibility for construction of this well and its compliance with all Oregon water well standards. This report is true to the best of my knowledge and belief.

Signed *Mike R. Brockett* Date 9/7/86

Company *Brockett Drilling* Co. Job No. 1371



795/12E-310A

9809C 10/85







89.9/13-31A

9809C 10/63



795/13 E. 31st  
Township held in  
Carr

11 000 1986

SALEM, OREGON  
Owner's Well Number:

WATER RESOURCES DEPT

## 9804C 10/85



RECEIVED

1688

9-13E-31 ad

Owner's Well Number:

Address P. O. Box 639

City Warm Springs

State Oregon Zip 97761

☒ New Well      ☐ Deepen      ☐ Recondition      ☐ Abandon

☒ Rotary Air      ☐ Rotary Mud      ☐ Cable      ☐ Other

☒ Domestic      ☐ Community      ☐ Industrial      ☐ Irrigation  
☐ Thermal      ☐ Injection      ☐ Other \_\_\_\_\_

Depth of Completed Well 170 ft

Special Standards date of approval

| HOLE     |      |     | SEAL     |      |    | Amount<br>sacks or pounds |
|----------|------|-----|----------|------|----|---------------------------|
| Diameter | From | To  | Material | From | To |                           |
| 12"      | 0    | 18  | cement   | 0    | 18 | 6 sacks                   |
| 8"       | 18   | 170 |          |      |    |                           |
|          |      |     |          |      |    |                           |
|          |      |     |          |      |    |                           |

How was seal placed? Method ☐ A ☐ B ☐ C ☐ D ☒ E

☐ Other

Backfill placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Material \_\_\_\_\_

Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Size of gravel \_\_\_\_\_

|         | Diameter | From | To  | Gauge | Steel                               | Plastic                  | Welded                   | Threaded                 |
|---------|----------|------|-----|-------|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Casing: | 8"       | +2   | -18 | .250  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|         |          |      |     |       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|         |          |      |     |       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|         |          |      |     |       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Liner:  |          |      |     |       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|         |          |      |     |       | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Final location of shoe(s)

☐ Perforations Method \_\_\_\_\_

☐ Screens Type \_\_\_\_\_ Material \_\_\_\_\_

[illegible]☐ Pump      ☐ Bailer      ☐ Air      ☐ Flowing Artesian

| Yield gal/min | Pumping level | Drill stem at | Time |
|---------------|---------------|---------------|------|
|---------------|---------------|---------------|------|

[illegible]

|     |  |  |      |
|-----|--|--|------|
| N/A |  |  | 1 hr |
|-----|--|--|------|

Temperature of water \_\_\_\_\_ Depth Artesian Flow Found \_\_\_\_\_

Was a water analysis done? ☐ Yes By whom

Did any strata contain water not suitable for intended use? ☐ Too little

☐ Salty   ☐ Muddy   ☐ Odor   ☐ Colored   ☐ Other

Depth of strata: \_\_\_\_\_

County Jefferson Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

Township 9S N or S. Range 13E E or W. WM

Section 31 SE  $\frac{1}{4}$  SW  $\frac{1}{4}$

Tax Lot \_\_\_\_\_ Lot \_\_\_\_\_ Block \_\_\_\_\_ Subdivision \_\_\_\_\_

Street Address of Well (or nearest address) 7228 N. Hwy 26

Medias, OR

n/a ft. below land surface. Date 6-1-88

Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

## Ground elevation \_\_\_\_\_

[illegible]

Date started 5-27-88 Completed 6-1-88

I constructed this well in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

Signed \_\_\_\_\_ Date \_\_\_\_\_

I accept responsibility for construction of this well and its compliance with all Oregon water well standards. This report is true to the best of my knowledge and belief.

Signed [Signature] Date 6-1-82

Stanford Hall, Chicago

Company \_\_\_\_\_ Co. Job No. \_\_\_\_\_







# WATER WELL REPORT

WATER RESOURCES DEPARTMENT  
SALEM, OREGON 97310  
within 30 days from the date  
of well completion.

STATE OF OREGON

(Please type or print)

(Do not write above this line)

State Well No. \_\_\_\_\_

State Permit No. \_\_\_\_\_

## (1) OWNER:

(b) (6)

Name \_\_\_\_\_

Address Wagon Springs Rd.

## (2) TYPE OF WORK (check):

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

## (3) TYPE OF WELL:

Rotary ☐ Driven ☐  
Cable ☒ Jetted ☐  
Dug ☐ Bored ☐

## (4) PROPOSED USE (check):

Domestic ☒ Industrial ☐ Municipal ☐  
Irrigation ☐ Test Well ☐ Other ☐

## (5) CASING INSTALLED:

Threaded ☐ Welded ☒

\_\_\_\_\_ " Diam. from 7 1/2 ft. to 21 ft. Gage \_\_\_\_\_

\_\_\_\_\_ " Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Gage \_\_\_\_\_

\_\_\_\_\_ " Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Gage \_\_\_\_\_

## (6) PERFORATIONS:

Perforated? ☒ Yes ☐ No.

Type of perforator used TORCH

Size of perforations 1/16 in. by 6 in.

20 perforations from 20 ft. to 30 ft.

\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

\_\_\_\_\_ perforations from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

## (7) SCREENS:

Well screen installed? ☐ Yes ☒ No

Manufacturer's Name \_\_\_\_\_

Type \_\_\_\_\_ Model No. \_\_\_\_\_

Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Diam. \_\_\_\_\_ Slot size \_\_\_\_\_ Set from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

## (8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☐ Yes ☒ No If yes, by whom?

Yield: \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.

" " " " "

" " " " "

Bailer test 12 gal./min. with 60 MP ft. drawdown after 1 hrs.

Artesian flow NONE g.p.m. -

Temperature of water 55 Depth artesian flow encountered \_\_\_\_\_ ft.

## (9) CONSTRUCTION:

Well seal—Material used Cement Grout

Well sealed from land surface to 16 ft.

Diameter of well bore to bottom of seal 10" in.

Diameter of well bore below seal \_\_\_\_\_ in.

Number of sacks of cement used in well seal \_\_\_\_\_ sacks

How was cement grout placed? POURED THEN TAMPED

grout placed bottom up

Was a drive shoe used? ☐ Yes ☒ No Plugs \_\_\_\_\_ Size: location \_\_\_\_\_ ft.

Did any strata contain unusable water? ☐ Yes ☒ No

Type of water? \_\_\_\_\_ depth of strata \_\_\_\_\_

Method of sealing strata off \_\_\_\_\_

Was well gravel packed? ☐ Yes ☒ No Size of gravel: \_\_\_\_\_

Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

## (10) LOCATION OF WELL:

County JEFFERSON Driller's well number 44-2

1/4 1/4 Section 21 T. 9S R. 12E W.M.

Bearing and distance from section or subdivision corner

SARCEL TRAIL

## (11) WATER LEVEL: Completed well.

Depth at which water was first found 21 ft.

Static level 15 ft. below land surface. Date 11/1/79

Artesian pressure NONE lbs. per square inch. Date \_\_\_\_\_

## (12) WELL LOG:

Diameter of well below casing 6 in.

Depth drilled 35 ft. Depth of completed well 30 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

| MATERIAL             | From | To | SWL |
|----------------------|------|----|-----|
| Top Soil             | 0    | 1  |     |
| GRAVEL & CLAY        | 1    | 4  |     |
| TAN CLAY             | 4    | 21 | 15  |
| COARSE SAND & GRAVEL | 21   | 28 | 15  |
| TAN CLAY             | 28   | 35 | 15  |

RECEIVED

NOV - 7 1979

WATER RESOURCES DEPT  
SALEM, OREGON

Work started 10/31 1979 Completed 11/1 1979

Date well drilling machine moved off of well 11/1 1979

## Drilling Machine Operator's Certification:

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Carl Clauson Date 11/5, 1979  
(Drilling Machine Operator)

Drilling Machine Operator's License No. 1237

## Water Well Contractor's Certification:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name CLAUSON WELL DRILLING  
(Person, firm or corporation) (Type or print)

Address P.O. Box 780 PRINCETON, OR

[Signed] Carl Clauson  
(Water Well Contractor)

Contractor's License No. 781 Date 11/5, 1979